

PROJECT SUMMARY

I. Introduction

A construction permit application has been submitted by Applied Composites for a replacement sheet molding compound machine. The new sheet molding compound machine will replace the existing sheet molding compound machine currently in operation. The construction permit would have federally enforceable limitations on the sheet molding compound machine. The proposed limits would be accompanied by recordkeeping, monitoring and reporting requirements.

II. Source Description

In the sheet molding compound (SMC) process, previously mixed SMC is injected via enclosed piping systems into doctor boxes where it is metered onto a nylon carrier film using a blade to control thickness. The SMC machine is the machine that physically applies the sheet molding compound to the nylon film. Continuous fiberglass roving (i.e., chopped fiberglass), ducted to a dust collector, is dropped on the resin mix, and another layer of resin is applied over the roving. The resin material is then covered with a top carrier nylon film. The encapsulated compound is run through a compaction belt to ensure roving is impregnated with the resin compound. The pliable resin compound is then folded into crates for transfer to the maturation room.

III. Emissions

Emissions and operation of Compound Preparation and Maturation (continuous lamination) Process, which includes the sheet molding compound machine will be limited to the following:

Monomer Usage	Production of Molding Compound	VOM Emissions	
<u>(Ton/mo)</u>	<u>(Ton/yr)</u>	<u>(ton/yr)</u>	<u>(ton/mo)</u>
240	2,153	18,771	7.30
			65.45

Emissions of VOM attributable to the cleanup operations associated with the SMC machine will be limited to 0.4 tons/month and 2.8 tons/year.

The existing SMC machine will be shutdown resulting in a contemporaneous decrease of 46.5 tons of VOM, resulting in a net emission change of 18.95 tons of VOM.

Accordingly, the project would not be a major modification pursuant to the state's rules for Major Stationary Sources Construction and Modification (35 IAC 203). Detailed information on the changes in emissions at the refinery accompanying this project is provided in Attachment 1 of the draft permit.

IV. Applicable Emission Standards

All emission sources in Illinois must comply with the Illinois Pollution Control Board's emission standards. The Board's emission standards represent the basic requirements for sources in Illinois. The Board has standards for sources of volatile organic material. This site readily complies with all applicable Board standards.

V. Proposed Permit

The conditions of the proposed permit contain limitations and requirements to assure that this project would not be a major modification pursuant to the state's rules for Major Stationary Sources Construction and Modification (35 IAC 203). The permit sets limitations on volatile organic material.

The permit conditions also establish appropriate compliance procedures, including inspection practices, recordkeeping requirements, and reporting requirements. The Permittee must carry out these procedures on an on-going basis to demonstrate that the facility is operating within the limitations set by the permit.

VI. Request for Comments

It is the Illinois EPA's preliminary determination that the facility meets all applicable state and federal air pollution control requirements, subject to the conditions proposed in the draft permit. The Illinois EPA is therefore proposing to issue a permit with federally enforceable limits for this project.

Comments are requested on this proposed action by the Illinois EPA and the proposed conditions on the draft permit.